

Application No.: 09/756,877

Docket No.: 20162-00572-US

AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, listing of the claims.

Listing of the Claims:

1. (Currently amended) An audio mixer comprising

an effect algorithm processor inserted into each signal path of a plurality of channels of audio signals;

an addition processor for performing an addition processing function of audio signals delivered from respective channels effect algorithm processors to deliver a single output channel signal;

an in-plane position sensor for delivering the position of a maneuvered point on a operating surface in the form of a first and a second position signal which represent positions in orthogonally mutually crossing two directions on the operating surface;

a mode changeover switch for selecting one of different operating modes of the audio mixer, the respective effect algorithm processors having functions which are configured in accordance with the one operation mode selected by the mode changeover switch; and

and a controller responsive to the selected one operation mode selected by the mode changeover switch for concurrently controlling by means of the first and the second position signal signals delivered from by the in-plane position sensor which are obtained by applying a single fingertip operation control parameter to at least one two of the

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functions of the effect algorithm processors and the addition processor to control at least one of a plurality of responses which are provided by the effect algorithm processors and an addition ratio effected by the addition processor.

2. (Currently amended) The An audio mixer according to Claim 1, wherein in which there are provided two signal channels, one of the two effect algorithm processors processor has a variable low pass filter function while the other has a variable high pass filter function, and in which the first and the second position signals signal are control parameters controlling the respective cut-off frequencies and the respective attenuations of the variable low pass and the variable high pass filters filter, and in which the second first position signal represents a control parameter controlling an addition ratio effected by the addition processor.

3. (Currently amended) The An audio mixer according to Claim 1, wherein in which there are provided two signal channels, either one or both of the effect algorithm processors have a reverberation adding function, and in which the first position signal represents a control parameter for controlling the volume of reverberated tones produced by the reverberation adding function while the second position signal represents a control parameter controlling the addition ratio effected by the addition processor.

4. (Currently amended) The An audio mixer according to Claim 1, wherein in which at least one of the effect algorithm processors processor which is inserted in either one of the channels audio signal paths has an effector function in which the first and the second position signal are control parameters for controlling a plurality of conditions the condition of the effector function, the controller includes including means for detecting whether or not the in-phase position sensor generates the position signal and controls said one effect algorithm processor in a manner such that controlling the effector function is provided to its corresponding channel a

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~~condition in which it is connected in the path of the audio signal when the position signals are detected being produced by the in-plane position sensor and or not provided to render the channel into a pass-through condition when the position signals are not detected produced.~~

5. (Currently amended) The An audio mixer according to Claim [4] 1,
wherein in which at least one of the effect algorithm processors has an the effector function
which is a reverberation adding effector function, and the first and second position signals
represent control parameters for controlling the reverberation attenuation interval and the
reverberation depth, respectively.

6. (Currently amended) The An audio mixer according to Claim [4] 1,
wherein in which at least one of the effect algorithm processors has an the effector function
which is an echo adding effector function.

7. (Currently amended) The An audio mixer according to Claim 1, in which the
controller includes position storage means which stores the first and the second position signal
delivered by the in-plane position sensors and which delivers the stored first and second position
signals as control parameters.

8. (Currently amended) The An audio mixer according to Claim 1, in which the
addition processor and the effect algorithm processors are implemented in a digital
arithmetic unit, and the controller is implemented by a microcomputer.

9. Canceled

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10. (Currently amended) The An audio mixer according to Claim 1, in which the position sensor has an operating surface which, when depressed, delivers a first and a second position signal, further comprising a pressure sensor disposed in overlapping relationship with the position sensor for detecting a force of depression applied to the operating surface of the position sensor, the controller applying a detection signal from the pressure sensor to one of the effect algorithm pressures as a control parameter which controls the response thereof.